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SC 06570/64-KT M/EB 304/64 8 June 1964 Copy

MEMORANDUM FOR:	Chief, Manufacturing and Services Division, ORR
ATTENTION:	
THROUGH:	Chief, Requirements Branch, Reconnaissance Group, CGS
FROM:	Chief, CIA/PID (NPIC)
SUBJECT:	Troposcatter Antenna Search, USSR
REFERENCES:	(a) Requirement C-RR-3-80,914 (b) CIA/PID Project C 10-64 (c) Appendix C 2/U/RU/R5-63
performed at 41 troposcatter ant search included	sonse to your requirement dated 31 December 1963 a search was selected locations in the Soviet Union in an effort to locate senas. This search was performed with negative results. The nine missions with the latest date mission being and to the last report on this subject (see SC 07298/63-KH, "Search Antennas," 29 Aug 63, TOP SECRET Missions involved are:

- 2. Righteen of the 41 locations were totally or partially covered by reasonably large scale (KH-7) photography. Most of these 18 locations were accurately located by geographic or UTM grid coordinates which were supplied with the requirement. The KH-7 photography was of sufficient quality and scale to identify vehicles, radars, and in most cases stick masts. Any troposcatter antennas present on this photography would have been identified. It is doubtful that tropospheric antennas, which might have been present on the smaller scale KH-4 photography, could be identified without some knowledge of "site signatures" which must be derived from larger scale comparative photography.
- 3. The enclosed table lists the sites in order by name and their numerical designator. It indicates the coverage by mission and the limiting degrees of the photography due to the weather and quality. It also gives, by reference to the appropriate subparagraph, a short description of the vicinity of each search area which was covered by usable photography.

Reviewed by NGA.

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GROUP 1 Excluded from automatic downgrading and declassification SUBJECT: Troposcatter Antenna Search, USSR

The following abbreviations are keyed to the enclosed table: NC - Not covered by photography CC - Cloud covered SC - Scattered clouds to heavy clouds 1:11 H - Haze PIQ- Poor Image Quality (Uninterpretable) Zhigansk (2202) 66-40N 123-26E FALL KING and two probable u/i radar identified. Square clearing (graded area) in vicinity of coordinates. No troposcatter identified within 20 nautical mile area. Sangar (2204) 63-55N 127-31E TALL KING identified troposcatter observed within a 20 nautical mile area. Yakutsk (2205) 62-00N 129-40E No coordinates given in referenced document (c). No troposcatter observed within a 20 nautical mile area. Salekhard (3301) 66-33N 66-40E No stereo, no troposcatter observed in a 20 nautical mile area. No coordinates given for site in referenced document (c). Mys Kamennyj (3302) 68-32N 73-24E No troposcatter observed in a 20 nautical mile area. Interpretation limited due to haze and poor quality. Dudinka 69-25N 86-15E No man-made features in area of grid coordinates. Grid coordinate and geographic coordinates plot at separate positions Town and area north of town open. South of town 100 percent cloud covered. Khatanga (3306) 71-57N 102-39E One TAILKING and at least two other radar observed. Also antenna field, probable rhombics.

Town identified only. No suspect troposcatter sites within 20 nautical mile radius.

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Mys Kosistyj (3307) 73-33N 110-21E One very tall tower and two smaller towers in general area. Search area not completely covered. Tiksi (3310) 71-38N 128-45E -Coordinates plot in center of antenna field. Two antenna fields, one rhombic, one probable fishbone. Svyatoj Nos (3311) 72-50N 140-51E No man-made features observed within a 20 nautical mile radius of referenced coordinates (c). Allajkha (3313) 70-31N 147-16E Village only in vicinity of coordinates (c). Sredene Kolymsk (3315) 67-30E 154-02E Nothing present at referenced coordinates (c). No troposcatter suspect site within a 20 nautical mile radius of the town. Nizhne Kresty 68-45N 161-18E No geographic or grid coordinates given. No suspect sites within a 20 nautical mile radius of town. Perek 69-42N 170-17E No suspect site in vicinity of town. Photography hazy. No man-made objects in the immediate vicinity of grid coordinates. Suspect site located at approximately 69-54N 170-45E. However, site shows no apparent change since An annotated print of this site is enclosed with this report. Mys Shmidta (3318) 68-52N 179-32W Probable TALL KING, BARLOCK-type radar, one unidentified radar and an antenna field observed in area. One rectangular gable-roof building and a small gable-roof building, both partially snow covered in vicinity of grid coordinates. No man-made features within 20 nautical mile radius of coordinates. Vankarem (3319) 67-51N 175-50W TALL KING and a probable unidentified radar near town. Grid coordinates plot on or very near two prominent, flat knobs suitable for deployment of troposcatter antennas. However, no man-made features are in area. No man-made features within a 20 nautical mile radius of village.

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SUBJECT:	Tr	roposcatter Antenna Search, USSR SC 06570/64-KH M/EB 304/64
	q.	Provideniya (3320) 64-23N 173-18W  No troposcatter antenna observed in a very limited area.
	<b>r</b> .	Uel'Kal' (4401) 65-32N 179-17W  New TALL KING, BARLOCK-type radar, and one unidentified radar near village.  No man-made features in vicinity of referenced grid coordinates.
	8.	Anadyr (4402) 64-55N 177-29E  Probable rhombic field and probable fishbone array observed in vicinity.  Grid coordinates plot in ONEMEN bay (c).  No suspect sites observed.
	<b>t.</b>	Markovo (4404) 64-40N 170-25E  Nothing man-made within a 20 nautical mile area outside or the vicinity of the town.  No coordinates provided in referenced document (c).
	u.	Slavutnoe (4405) 63-11N 167-51E  Two suspect structures north of town.  20x enlargement provided.  No other suspect activity within a 20 nautical mile radius of village.  No coordinates provided in referenced document (c).
	v.	Kamenskoe (4406) 62-30N 165-10E  No troposcatter antenna observed on available photo coverage except village of Kamenskoe.  No coordinates provided in referenced document (c).
	w.	Magadan (4409) 59-34N 150-48E  One BARLOCK-type radar, one unidentified radar, a possible thick eight, and a possible bore sighting tower or microwave tower were the only electronics observed.  No suspect sites observed within a 20 nautical mile radius of tower.
	<b>x.</b>	No coordinates provided in referenced document (c).  Okhotsk (4410) 59-25N 143-24E  Nothing observed within general vicinity of grid coordinates.  Very limited search area, which included town.

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Troposcatter Antenna Search,

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₩.	у.	Ynykchan (unknown), 60-15N 137-43E
į.		Only area east of village covered. No man-made features
		observed.  No coordinates provided in referenced document (c).
	5, .1	
	2.	Enisejsk (8809) 58-24N 91-59E
	1	No troposcatter antenna observed in very limited area, on non-stereo coverage.
	*-:	No man-made features observed in immediate
		vicinity of geographic coordinates. FLIM FLAM station is
		only electronic facility discernible.
5•	a.	Mytishchi
	. 1	Stereo coverage revealed no troposcatter.
		Scale may preclude identification.
	b.	Babynino Area
va ž		Good quality, stereo photography revealed no suspect troposcatter sites between Babynino and Kalvga/
·"Ju.	:	Oreshkovo airfield.
1.	*	
	c.	Kosaya Gora  Fair quality, stereo photography revealed no
4 .		suspect troposcatter sites in the vicinity of Kosaya Gora Iron
		Works.
	a	Orel Airfield
		Good quality, non-stereo photography of the airfield revealed
	3	Good quality, stereo photography revealed no troposcatter
		sites.
	e.	Gabra (Gagra) Good quality coverage of a limited area revealed no tropo-
	•	scatter site. Town not covered.
b.		Good quality coverage of a very limited area due to clouds.
*.	; -	Baku
•	•	Area located at extreme edge of frame. No stereo due to
•		forward camera light struck. No suspect troposcatter sites observed
	•	Town only covered due to clouds. No suspect troposcatter sites observed.
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SUBJECT: Troposcatter Antenna Search, U	SC 06570/64-KH • M/EB 304/64
g. Krasnovodsk  Very limited area of an enclosed antenna field troposcatter site observed	coverage. BARLOCK-type radar and located near airfield. No suspect
this project.	have any further questions concerning
7. This project is considered to	Def
Enclosures: 1 - Attachments 1 thru 7 to Requirement C-RR-3-80,914	

- Table
- Two (2) annotated prints
Slavutnoye (CIA/PID/MEB-P-492/64)
Pevek (CIA/PID/MEB-P-493/64)

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· **	Mys Kamennyj 3302	NC	NC	NC NC	Paragraph 4e	NC	NC NC	NC	NC	NC	
	Antipayuta 3303	NC	H	* NC *	NC .	NC	, NC	NC	NC (	<b>c</b> c	
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	Mys Kosistyj 3307	Paragraph 4h	Paragraph 4h	NC	NC	NC ,	NC NC	. NC	<b>N</b> C	<b>CC</b> 6	
	Tajmylyr 23309	NC	NC	NC.	NC	NC	NC	'nc	NC <sup>^</sup>	CC	
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Attachment to: SC 06570/64-KH

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Name No.									
Svyatoj Nos 3311	TC	NC	NC	Paragraph 4j	NC	NC	Paragraph 4j	NC.	" NC
Allajkha 3313	Paragraph' 4k	Paragraph 4k	NC	CC	NC \$	NC	CC 4	NC	NC NC
Sredne Kolymsk 3315	Paragraph . 41	NC	NC .	Paragraph	NC		<b>∜</b> NC	NC	NC
Nizhnie Kresty 3316	NC	Paragraph 4m	Paragraph 4m	NC	NC ;	NC	NC	CC	NC
Perek 3317	NC	Paragraph 4n	NC	Paragraph	NC	NC	NC	NC ,	CC
Mys Shmidta 3318	Paragraph 46	Paragraph 40	Paragraph 46	NC .	NC	NC -	SC, PIQ	NC	CC
Vankarem 3319	Paragraph 4p	NC	Paragraph 4p	NC	NC -	NC	CC	'nC	CC
Provideniya 3320	NG .	Paragraph 4q	NC	NC	NC	NC 44	NC	NC	H, PIQ
Uel'Kal' 4401	Paragraph 4r	NC	NC	Paragraph Ar	NC	NC	NC	NC	PIQ
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Okhotsk 4410	Paragraph 4x	Paragraph 4x	CC	NC	NC	NC	NC	NC	NC
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Attachment to: SC 06579/64-KH M/KB 304/64 Approved For Release 2005/06/08: CIA-RDP78T05439A000300390026-2

Name No. CC or NC Paragraph Paragraph 5c 5c NC NC NC NC NC NC Kosaya Gora unknown ČC or NC Paragraph. > 5d CINC: IC NC NC CC or NC Paragraph 5d . NC NC Orel unknown ń Paragraph Paragraph 5e 5e NC 🐴 NC NC NC NC NC NC Gabra 5е NC unknown 1.5 Paragraph 51 NC nc 🖡 NC Paragraph NC NC NC Baku unknown NC CC NC NC NC Paragraph 5**g** NC NC NC  ${\tt Krasnovodsk}$ unknown

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